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PT-C - Powder Liquid Mixer

Introduction:



The PerMix PT-C Series Powder Liquid Mixers are designed for fast and high volume powder mixing into liquid. They are especially distinguished when the powder is "difficult-to-wet" with conventional blending method.

With all its unique features, our PT-C Powder Liquid Mixers are widely used in mixing of all kinds of powder products by a variety of industries, e.g. food and beverage, dairy care, pharmaceutical, chemical.

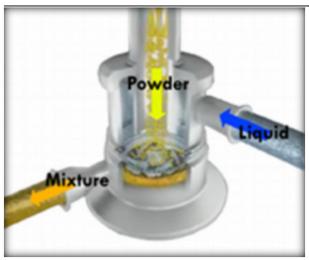
How It Works:

Our unique PT-C series Powder Liquid Mixers are integrated by two parts, a casing pipe and a stator rotor high shear mixer. The casing pipe is built vertically and coaxially into the stator rotor system inlet. This double-wall design prevents the powder going through the casing pipe contacting the liquid and forming lumps before they both arrive at the stator rotor system.



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As the rotor running at high speed during operation, liquid enters into the chamber and a water ring is created. Vacuum is generated at the center which causes suction of the powder from the hopper above the chamber. A valve at the bottom of the hopper is used to regulate the falling rate of the powder. As soon as the powder gets in contact with the liquid, it is wetted and dispersed into the liquid by the turbulence and later high shear force when the mixture goes through the precise machined clearance between the stator and rotor, and radiated out through the stator openings.

Other Designs:





Except the double-wall design of PT-C series Powder Liquid Mixer, there are many other ways for powder incorporation into the liquid. The selection among them depends on the processing requirement, material character, budget, etc. With our more than 60 years of know-how, PerMix has the experience to work out the best solution with our customers.

Applications:

Some typical applications can be:

- Preparation of syrup, sorbitol, glucose, lactose, etc.
- Reconstitution of powdered milk, whey, protein, etc.

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- Dissolution of CMC, Xanthan gum, etc
- Preparation of flour and starch slurries
- Preparation of brines
- Pre-mixtures of yogurt and other milk-based desserts
- Suspension of bentonites, TiO2 in pigment
- Preparation of pesticides and fertilizers

Options:

A lot of options are available for the PT-C Powder Liquid Mixer:

- Powder hand-held hose assembly
- Variable speed motor; Frequency converter
- Multi-row, multi-stage stator & rotor
- Metal part to be SS 316L or others
- Gasket sealing of FPM, FFPM, etc.
- Hopper of 50°, 60°, etc.
- Hopper vibrator or Air sweeper
- Single or double mechanical seals

Specifications:

Model	Watts, kW	RPM, @50Hz	Max. Liquid Capacity, Ton/hr	Max. Powder
				Capacity, Kg/min
PT-C/Q-60	1.5	3,000	1.5	5
PT-C/Q-100	2.2		3	10
PT-C/Q-120	4		4	15
PT-C/Q-140	5.5		5	20
PT-C/Q-165	7.5		8	30
PT-C/Q-180	11		12	50
PT-C/Q-185	15		18	80
PT-C/Q-200	22		25	120
PT-C/Q-210	30		35	180
PT-C/Q-210	37	1,500	40	220
PT-C/Q-230	45		50	250
PT-C/Q-245	55		75	300
PT-C/Q-260	75		90	400
PT-C/Q-275	90		110	500
PT-C/Q-280	132		130	600

- Actual liquid and powder capacity will vary depending on the materials and stator rotor type. 1)
- 2) The machine is with one (1x) pair of stator rotor.
- PerMix offers special model according to customer requests. 2)
- PerMix reserves the right to modify the design without notice. 3)



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Gallery:



Standard PT-C Powder Liquid Mixer



PT-C Mixer with Electric Control Panel



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PT-C Mixer with Feeding Table



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PT-C Powder Liquid Mixer at Work